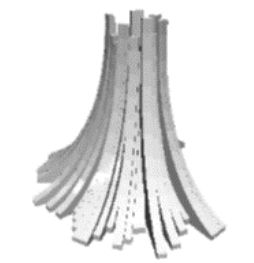





Volcano 1-0 Challenge

Item No.	Item	Qty	Description	Image In Optimized Build Orientation	Maximum Layer Thickness	Notes
1	Volcano Test Stand	1	Holds the modified centrifuge tube used to inject vinegar into water and baking soda solution		0.015 inch	
2	Nozzle Holding Stand	1	Organizer for printed nozzles		0.015 inch	
3	Job Kitting Stand	1	Organizer for kitting player attempts		0.015 inch	

4	ML Measurement Spoon Set	1	Printable ml measurement spoons, 0.05/0.10/0.50/1.00ml & scraper		0.010 inch	
5	Spoon Organizer Ring	1	1.25" Dia Book Ring			
6	20ml Syringe	1	Cole-Parmer BD syringe, 20ml slip tip, PN 7944-16 or equivalent			To accelerate more students, add more syringes. Suggested Qty 5
7	50ml Centrifuge Tube	1	Stockwell Scientific PN 3261 w/Blue Cap or equivalent			To accelerate more students, add more syringes. Suggested Qty 5
8	50ml Centrifuge Tube	1	Stockwell Scientific PN 3261 w/Blue Cap or equivalent			See test stand instruction sheet for modification details
9	Injector	1	Cole-Parmer Female Luer Style 200 Barb PN 30800-08, or equivalent			See test stand instruction sheet for modification details
10	Tubing	1	6" long x 1/4"OD x 1/8"ID Vinyl Tube UPC 092503270011 or equivalent			See test stand instruction sheet for modification details
11	Test Basin	1	24" Dia Plast Drain Pan, Home Depot PN 15021, or equivalent			See test stand instruction sheet for modification details
12	Test Tower Sheets	5	Acetate Sheet 0.010"x25"x40", Blick PN 55501-1100 or equivalent			See test stand instruction sheet for modification details

13	Test Tower Assy Rings	5	12" Dia Embroidery Hoop			See test stand instruction sheet for modification details
14	Measurement Graphic	1	Laminated Graphic, see website for Rippl3D Graphic			See test stand instruction sheet for modification details
15	Silicone Caulk	1	Used to fabricate Test Tower Cap			See test stand instruction sheet for modification details